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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,447	02/28/2002	Sang Yong Lee	0465-0907P-SP	4973
2292 7590 08/17/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER MANIWANG, JOSEPH R	
			ART UNIT 2144	PAPER NUMBER
			NOTIFICATION DATE 08/17/2007	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/084,447

Applicant(s)

LEE, SANG YONG

Examiner

Joseph R. Maniwang

Art Unit

2144

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 June 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7,9-13 and 15-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7,9-13 and 15-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This application has been assigned to another examiner. New contact information can be found below.

Claim Objections

2. Claim 2 is objected to because of the following informalities: the claim recites "demultiplxer", which appears to be a typographical error. Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
4. Claims 1-7, 9-13, and 15-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
5. Applicant is advised that while an attempt has been made to enumerate the various problems in each independent claim below, a thorough review and significant amendment to the claim language should be made in order to overcome any potential issues under 35 U.S.C. 112 that may arise in a subsequent filing.
6. Regarding independent claim 1, the language contains several grammatical errors and renders the claim generally unclear. For example, the claim recites "a media

Art Unit: 2144

routing control part for giving a fixed unit of time stamp, a TS packet number, to each TS packet". It is not clear where the phrase "a TS packet number" belongs, e.g., if the media routing control part is "giving" the packet number, or if the packet number further limits the claimed "time stamp". Further to this point, it is not clear if the claimed "extracting index information" is another claimed function of the media routing control part, or if the media routing control part is "giving extracting index information" in the language as currently presented. Additionally, the term "fixed unit of time stamp" is also unclear.

7. Regarding independent claim 9, the language of the claims is generally unclear. For example, the claims recite "each TS packet from the PID filter part", "each TS packet of the analog broadcasting signal", "the TS packet", and "the TS synchronized". There is insufficient antecedent basis for these limitations in the claim. Additionally, the claim language as presented recites "a decoding part for receiving, decoding, and displaying a broadcasting signal or a signal reproduced through the memory part, and the media routing control part", in which it is unclear if the "media routing control part" is to be received, decoded, and displayed by the decoding part, or otherwise.

8. Regarding independent claim 15, the language of the claims is generally unclear. For example, the claim recites "selecting one of TSs of a received digital broadcasting signal and a received analog broadcasting signal". As presented, it is unclear what group "one of" is to be selected from (e.g., "TSs [of a received digital broadcasting signal] and a received analog signal" or a "TS of a digital signal and a TS of an analog

Art Unit: 2144

signal"). Additionally, the claim recites "adding a time stamp to a selected TS to synchronize". The claim is unclear as to what is intended to be synchronized.

9. Regarding independent claim 18, the phrase "when a trick mode reproduction is to be performed" is unclear, as the phrase appears to be a fragment unrelated to the language presented in the limitation before it.

10. Claims 5 and 11 recite "a storage medium for receiving the TS and the index information stored in the system memory and storing the TS and the index information, again". This claim language is generally narrative in nature, and is unclear as there is no antecedent basis for "a storage medium" receiving and storing the TS and index information a first time.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

12. Claims 1-7, 9-13, and 15-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (U.S. Pat. No. 6,466,733).

13. Regarding claims 1 and 15, Kim disclosed a method and system comprising a media routing control part for giving a fixed unit of time stamp a TS packet number, to

Art Unit: 2144

each TS packet of a TS of a digital broadcasting or an analog broadcasting signal (see column 5, lines 31-35), and extracting index information including at least one of the TS packet number and information on a type of picture from the TS having the time stamp added thereto (see column 7, lines 33-40); and a storage part for receiving and storing the TS having the time stamp added thereto and the index information from the media routing control part (see column 5, lines 36-43; column 7, lines 41-56).

14. Regarding claims 2, 3, and 10, Kim disclosed the method and system wherein the media routing control part includes a multiplexer for selecting and forwarding one of the TSs of the digital broadcasting signal and the analog broadcasting signal (see column 5, lines 21-30); a format converting part for giving the time stamp to the TS from the multiplexer to synchronize, and extracting the index information (see column 7, lines 33-40); a demultiplexer for selecting one of outputs from the multiplexer and the format converting part (see column 9, lines 62-65); and a scrambling/descrambling part for scrambling the TS having the time stamp given thereto and the index information or descrambling scrambled information from the storage part (see column 8, lines 10-58).

15. Regarding claims 4 and 13, Kim disclosed the method and system wherein the TS and the index information from the media routing control part are stored in the storage part through a PCI bus (see column 5, lines 21-30).

16. Regarding claims 5 and 11, Kim disclosed the method and system wherein the storage part includes a system memory for storing the TS and the index information from the media routing control part, and a storage medium for receiving the TS and the

Art Unit: 2144

index information stored in the system memory and storing the TS and the index information, again (see column 5, lines 36-43; column 7, lines 41-56).

17. Regarding claims 6 and 12, Kim disclosed the method and system wherein the TS and the index information stored in the system memory is stored in the storage medium by DMA transmission (see column 5, lines 21-30).

18. Regarding claim 7, Kim disclosed the method and system wherein the storage medium is either an HDD or a DVD (see column 1, lines 15-22).

19. Regarding claim 9, Kim disclosed a method and system comprising a PID filter part for selecting only a TS of a desired program from a received digital broadcasting signal and forwarding the TS (see column 5, lines 1-12); an MPEG-2 encoder for coding a received analog broadcasting signal to an MPEG-2 TS format, and forwarding the coded analog broadcasting signal (see column 5, lines 13-20); a media routing control part for giving a time stamp to each TS packet from the PID filter part or each TS packet of the analog broadcasting signal from the MPEG-2 encoder to synchronize the TS packet (see column 5, lines 31-35), and extracting index information including at least one of a TS packet number and information on a type of picture (see column 7, lines 33-40); a memory part for storing the TS synchronized at the media routing control part and the index information (see column 5, lines 36-43; column 7, lines 41-56); and a decoding part for receiving, decoding, and displaying a broadcasting signal or a signal reproduced through the memory part, and the media routing control part (see column 9, line 62 through column 10, line 25).

Art Unit: 2144

20. Regarding claim 16, Kim disclosed the method and system further comprising determining whether a format converted TS is scrambled or not; and scrambling and storing the TS if the TS is to be scrambled as a result of the determination, and storing the TS without scrambling the TS if the TS is not to be scrambled as a result of the determination (see column 10, lines 53-64).

21. Regarding claim 17, Kim disclosed the method and system further comprising setting a password at the storage medium to inhibit recording/reproduction after the step (c) (see column 8, lines 20-67).

22. Regarding claim 18, Kim disclosed a method and system comprising converting a format of corresponding TS packets within the storage medium with reference to index information including a TS packet number, type of picture and a time stamp given to each TS packet stored in the storage medium, when a trick mode reproduction is to be preformed (see column 5, lines 31-35); and decoding and displaying a format converted TS (see column 9, line 62 through column 10, line 25).

23. Regarding claim 19, Kim disclosed the method and system wherein the step (a) includes descrambling the TS before the format conversion, if the TS stored in the storage medium is in a scrambled state (see column 8, lines 10-58).

Response to Arguments

24. Applicant's arguments with respect to claims 1-7, 9-13, and 15-19 have been considered but are moot in view of the new ground(s) of rejection. Examiner submits that the claimed invention is taught by the prior art of record as detailed above.

Art Unit: 2144

Additionally, the claims are rejected under 35 U.S.C. 112, second paragraph, as the language presented is unclear.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hallberg (U.S. Pat. No. 7,027,713)

Sugimura et al. (U.S. Pat. No. 6,847,781)

Eerenberg et al. (U.S. Pat. No. 6,621,979)

Okamoto et al. (U.S. Pat. No. 6,430,362)

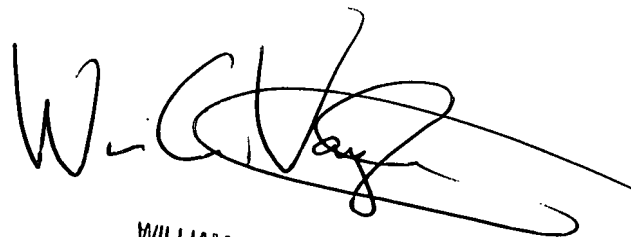
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph R. Maniwang whose telephone number is (571) 272-3928. The examiner can normally be reached on Mon-Fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William C. Vaughn can be reached on (571) 272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2144

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JM

A handwritten signature in black ink, appearing to read 'W. C. Vaughn', with a long horizontal stroke extending to the right.

WILLIAM VAUGHN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100